



ER=2.0 (H/h=2.0)



ER=1.5 (H/h=3.0)



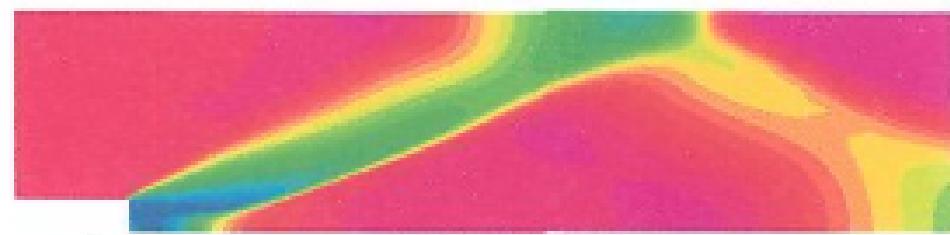
ER=1.33 (H/h=4.0)



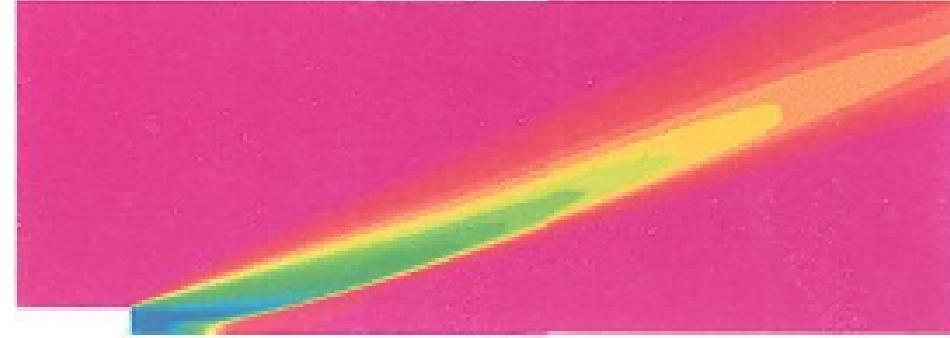
ER=1.25 (H/h=5.0)



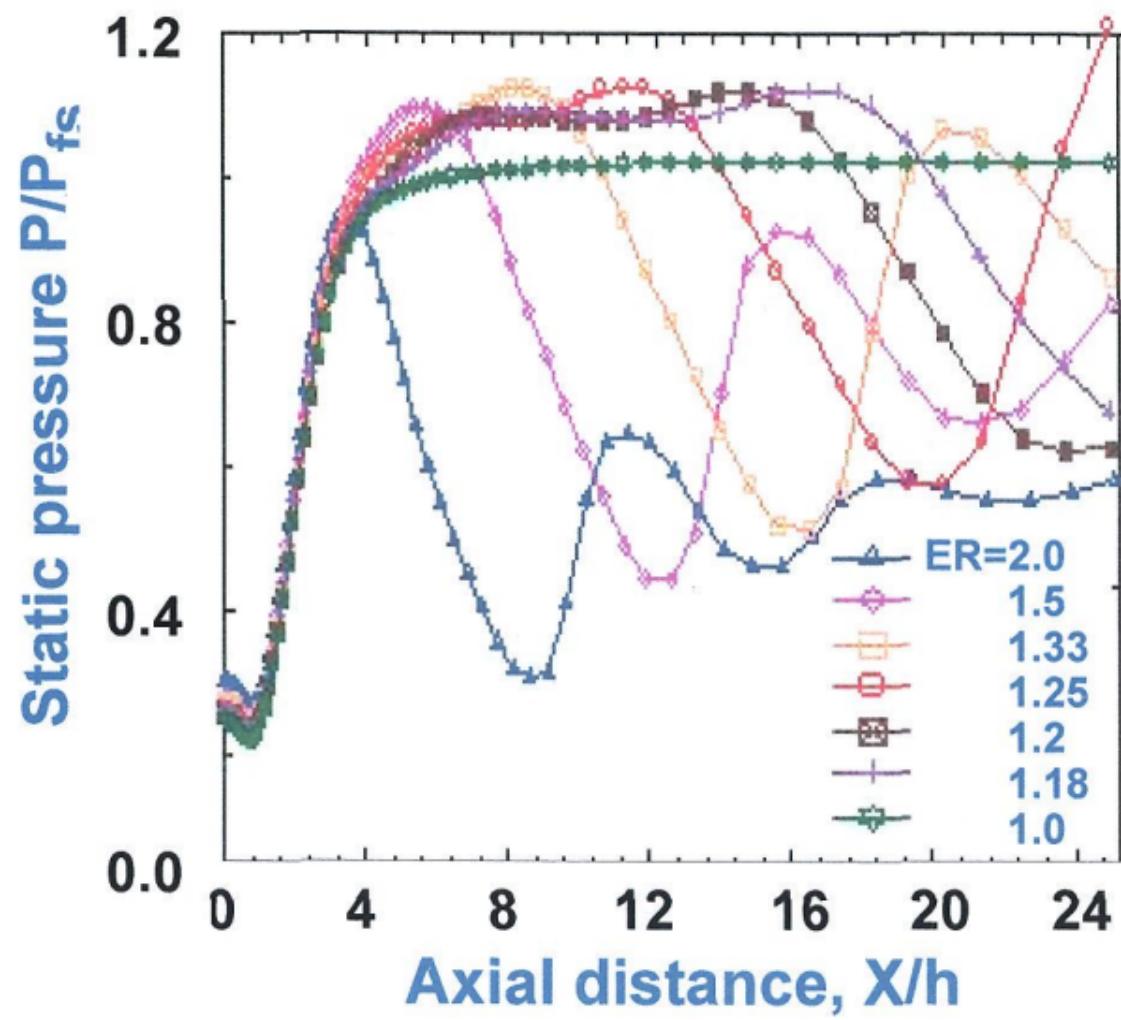
ER=1.2 (H/h=6.0)

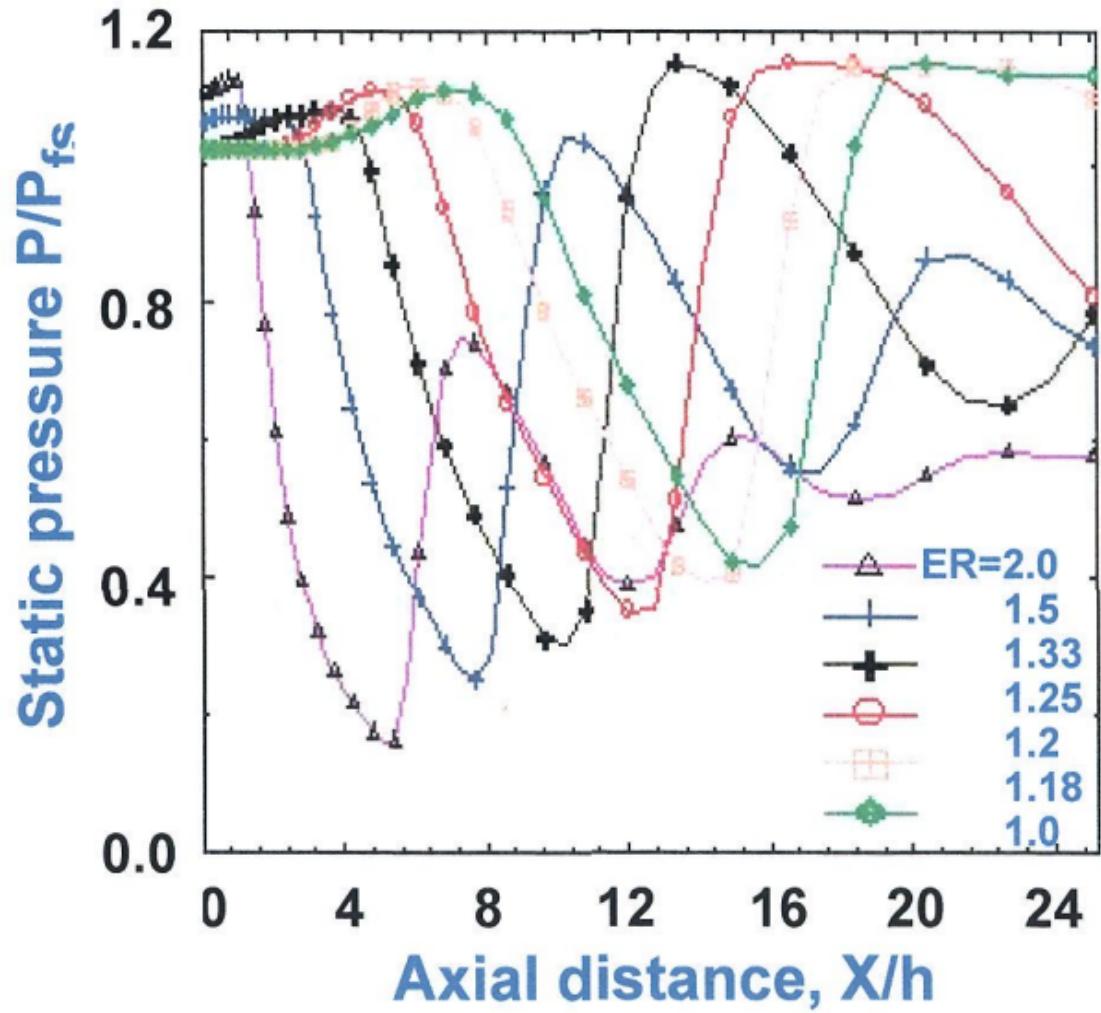


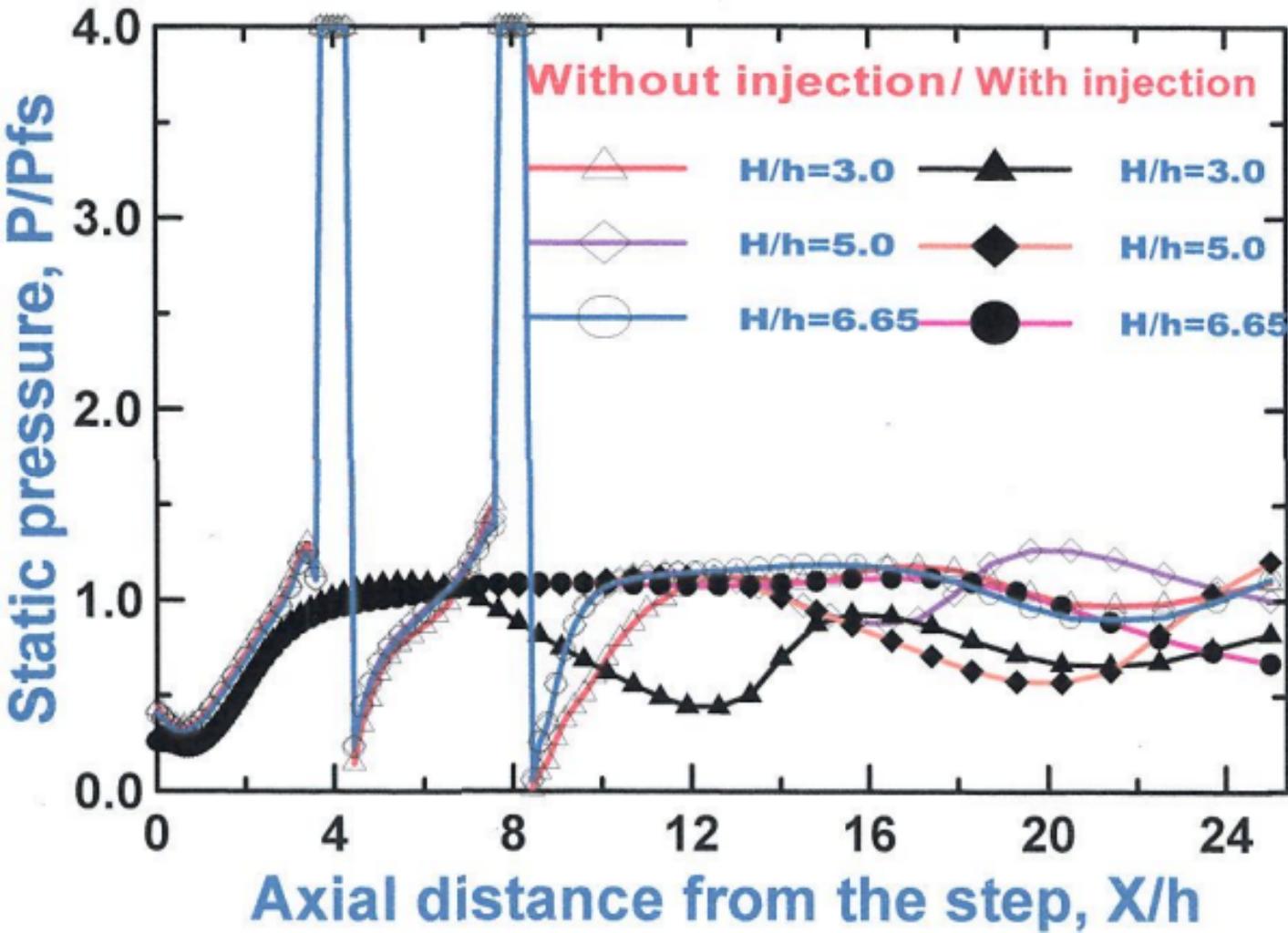
ER=1.177 (H/h=6.65)

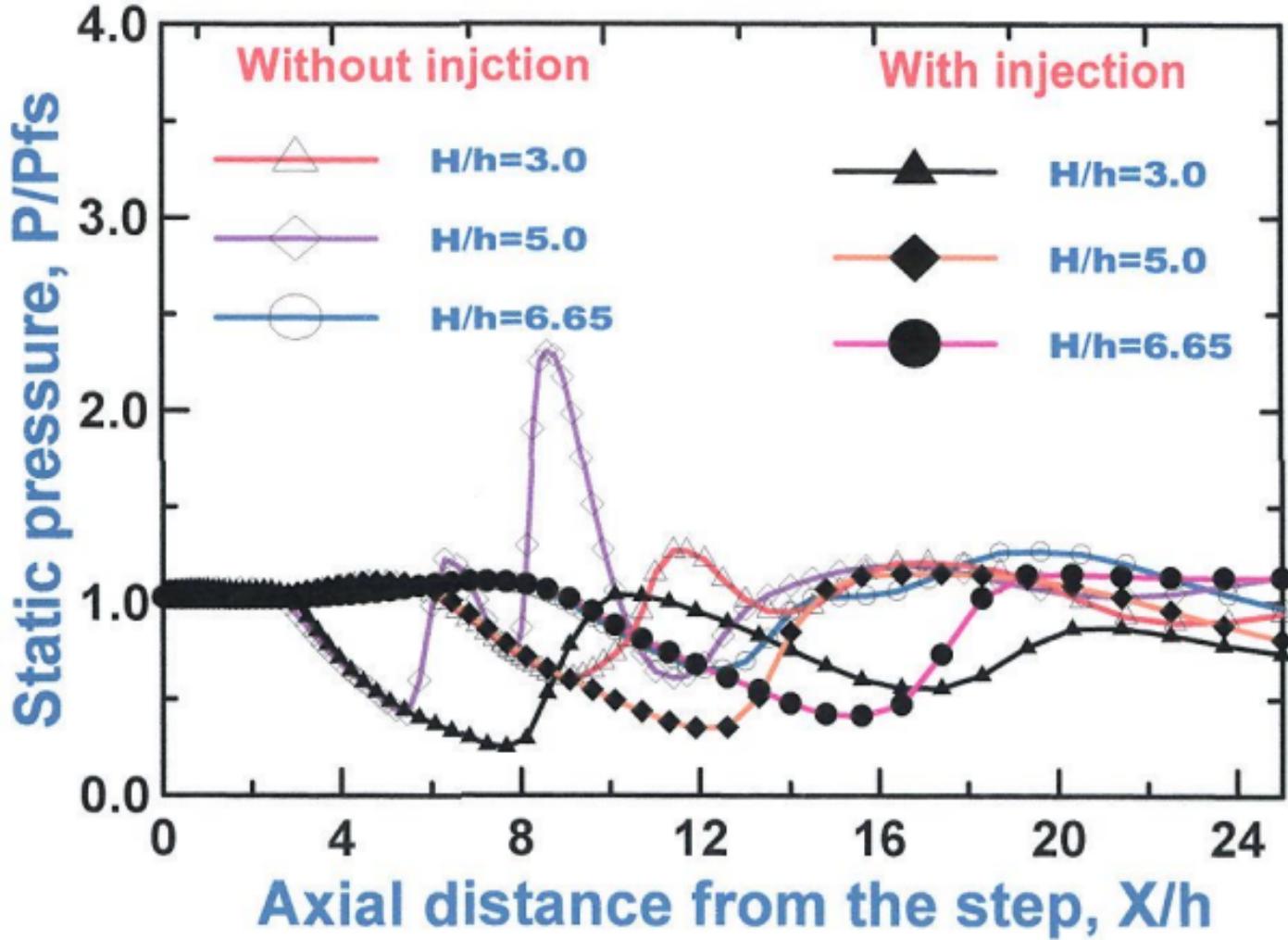


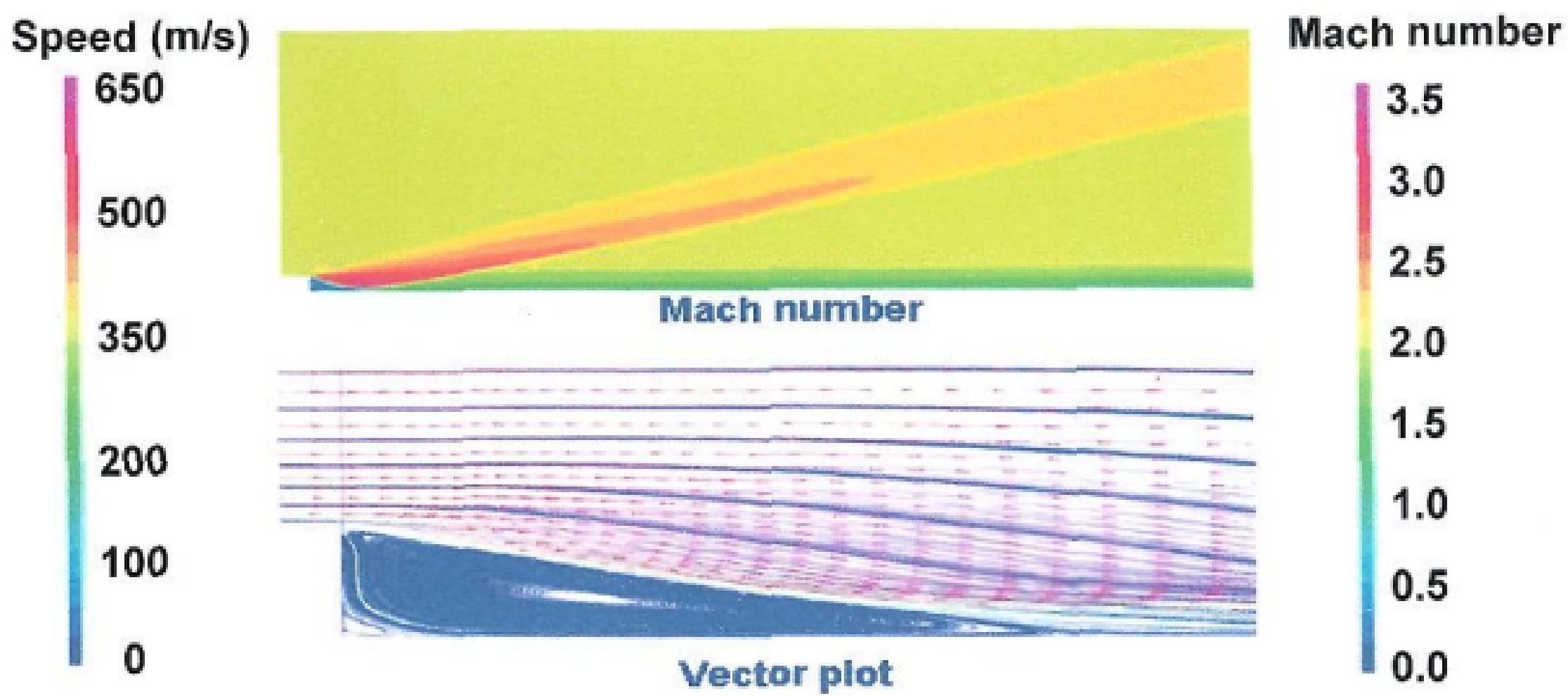
ER~1.0 (Unconfined)











Pressure (Pa)

4.0e4

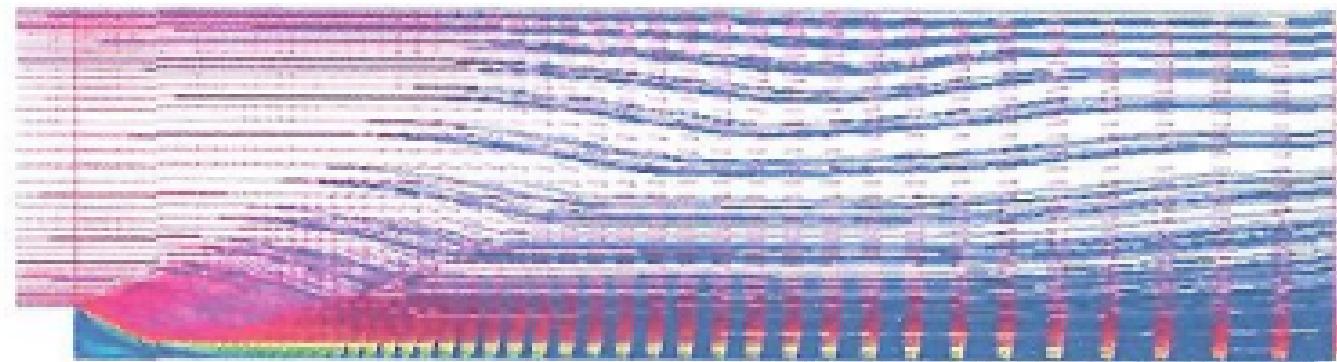
3.5e4

3.3e4

2.6e4

1.2e4

0.5e4



a) Vector plot

Speed (m/s)

650

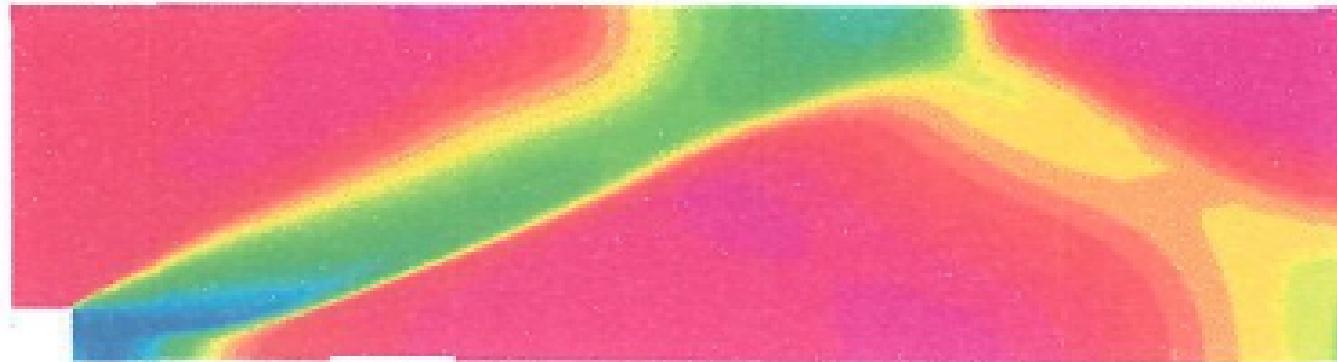
500

350

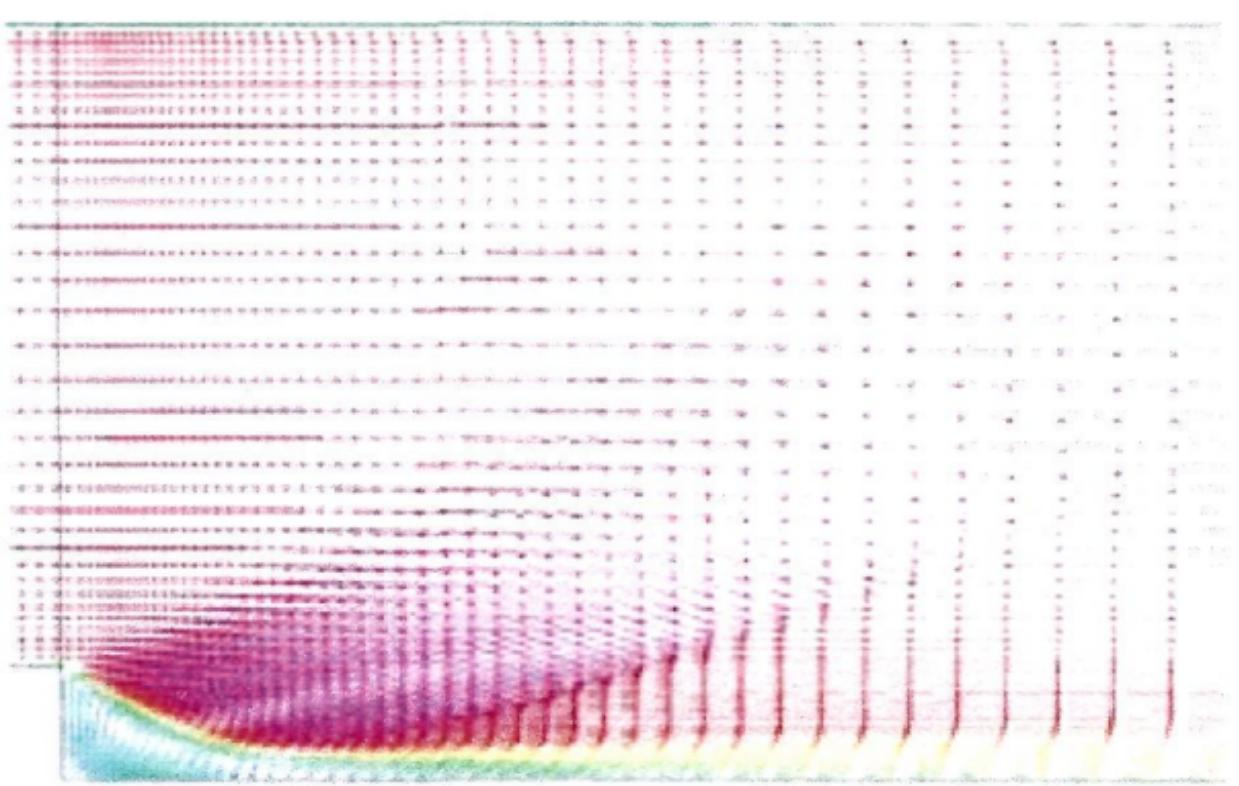
200

100

0

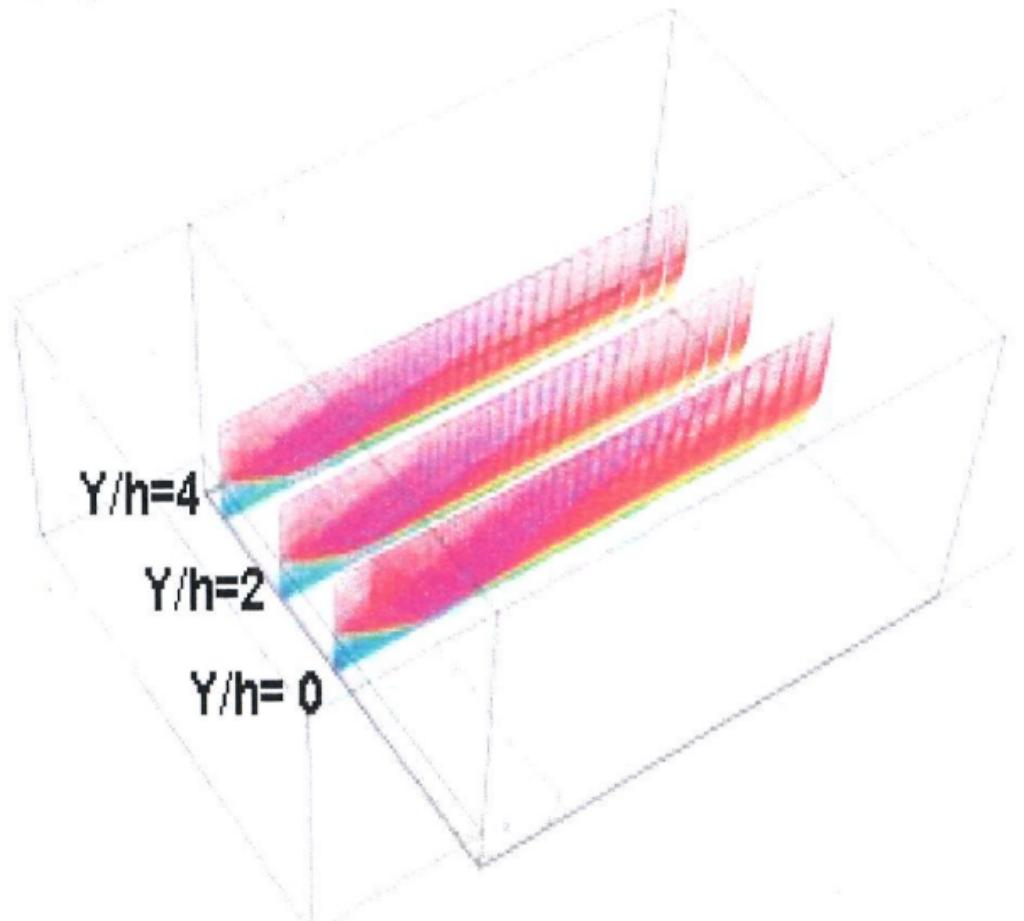


b) Pressure distribution



a) Without injection

**b) With injection**



A 3D plot showing a flow field in a channel. The flow is from left to right, visualized by streamlines. The color scale indicates velocity magnitude, ranging from blue at the walls to red in the core. Three horizontal planes are labeled with their normalized height  $Y/h$ :  $Y/h = 0$  at the bottom,  $Y/h = 2$  in the middle, and  $Y/h = 4$  at the top. The plot is set within a rectangular prism defined by a wireframe.

$Y/h = 4$

$Y/h = 2$

$Y/h = 0$

a) Without injection

$Y/h=4$

$Y/h=2$

$Y/h=0$

b) With injection